



# SAFETY DATA SHEET

## FASTMAX 60

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Print Date. ... : February 9, 2017  
Revised. .... : February 9, 2017

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name. .... : FASTMAX 60  
General Use. .... : A low cement refractory castable for placement by vibration casting.

#### MANUFACTURER :

Allied Mineral Products, Inc.  
2700 Scioto Parkway  
Columbus, Ohio 43221

#### CONTACT INFORMATION:

Phone. .... : (614) 876-0244  
E-mail. .... : sdsinfo@alliedmin.com

### 2. HAZARDS IDENTIFICATION

**CLASSIFICATION:** Carcinogenicity, Category 2      Skin irritation, Category 3  
Eye irritation, Category 2B      Target organ toxicity (repeated)-lungs, Category 1

#### LABELING:

**Symbol:** Health hazard

**Signal word:** Warning

**Hazard statement:** Suspected of causing cancer

**Precautionary statement:** Excessive inhalation of dust will increase the risk of silicosis. Some medical studies have concluded that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite from occupational sources. Avoid prolonged exposure to dust. Provide adequate ventilation and use suitable respirators if dust conditions warrant.



### 3. COMPOSITION/HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>CAS Registry #</u>	<u>Percent</u>	<u>Exposure Limits</u>
Alumina	1344-28-1	5-20	OSHA PEL = 15mg/m <sup>2</sup> total, 5mg/m <sup>2</sup> resp. dust; ACGIH TLV = 10mg/m <sup>2</sup> total dust. See note 1.
Alumina silicate	1302-93-8	45-60	OSHA PEL = 15mg/m <sup>2</sup> total dust; 5mg/m <sup>2</sup> respirable dust. ACGIH TLV = 2mg/m <sup>2</sup> resp. dust.
Cement, Calcium Aluminate	65997-16-2	<3	OSHA PEL = 15mg/m <sup>2</sup> total, 5mg/m <sup>2</sup> resp. dust; ACGIH TLV = 10mg/m <sup>2</sup> total dust. See note 1.
Cristobalite	14464-46-1	<1	OSHA PEL = ½[(10mg/m <sup>2</sup> )/(%Silica+2)] resp. dust; ACGIH TLV = 0.025mg/m <sup>2</sup> respirable dust.
Quartz	14808-60-7	<1	OSHA PEL = [(10mg/m <sup>2</sup> )/(%Silica+2)] resp. dust; ACGIH TLV = 0.025mg/m <sup>2</sup> respirable dust.
Silica Fume, Amorphous	69012-64-2	<10	OSHA PEL = 15mg/m <sup>2</sup> total dust; ACGIH TLV = 2mg/m <sup>2</sup> respirable dust.
Silica, Amorphous (Glass)	7631-86-9	5-20	OSHA PEL = 80mg/m <sup>2</sup> / % silica ACGIH TLV = 3 mg/m <sup>2</sup> respirable dust.

Some of the above ingredients are integral mineralogical constituents contained within the matrix of the raw materials.

Note 1: ACGIH TLV for total dust with no asbestos and less than one percent crystalline silica



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### 4. FIRST AID MEASURES

Eyes. . . . . : Flush eyes thoroughly with water for at least 15 minutes. Consult physician.  
Skin. . . . . : Wash with a mild soap and water.  
Ingestion. . . . . : No adverse effects anticipated by swallowing.  
Inhalation. . . . . : Remove to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.

### 5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards. : FASTMAX 60 is non-combustible and will not contribute to the intensity of a fire.  
Flash Point and Method. . . : Not Applicable.  
Flammable Limits. . . . . : Not Applicable.  
Autoignition Temperature. . : Not Applicable.  
Extinguishing Media. . . . . : As appropriate for the surrounding fire.  
Fire Fighting Equipment. . . : As appropriate for the surrounding fire.

### 6. ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures. . . . . : Reuse any spilled material where possible. Carefully scoop material into a suitable container. If conditions warrant, clean-up personnel should wear approved respiratory protection, gloves, and goggles to prevent irritation from contact and/or inhalation. Spilled material poses no threat to the environment. See section 12.

### 7. HANDLING AND STORAGE

Handling. . . . . : FASTMAX 60 requires no special handling other than adherence to good industrial practices.  
Storage. . . . . : Contact with water will cause material to set-up and become unusable.

### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation. . . . . : Provide adequate general ventilation and local ventilation to control mist and/or dust levels below the TLV.  
Personal Protective Equipment  
Eyes. . . . . : Goggles  
Skin. . . . . : Long sleeve clothing  
Inhalation. . . . . : Dust mask  
Other. . . . . : Gloves



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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point. . . . . : Not Applicable.  
Vapor Pressure. . . . . : Not Applicable.  
Vapor Density. . . . . : Not Applicable.  
Solubility in Water. . . . . : Slight  
Specific Gravity (H<sub>2</sub>O=1). . . : 2.5  
Melting Point. . . . . : >3000°F  
pH. . . . . : 10 - 11.5 (10% Aqueous Slurry)

#### 10. STABILITY AND REACTIVITY

Chemical Stability. . . . . : FASTMAX 60 is stable under normal ambient and anticipated conditions of temperature and pressure.  
Incompatible Materials and Conditions to Avoid. . . . . : None.  
Hazardous Polymerization. . . : Will not occur.  
Hazardous Decomposition. . . : Will not occur.

#### 11. TOXICOLOGICAL INFORMATION

There are no known health effects that can arise from the as-manufactured FASTMAX 60. There is no evidence to suggest that FASTMAX 60 itself is carcinogenic.

#### 12. ECOLOGICAL INFORMATION

FASTMAX 60 is virtually insoluble and immobile and poses no threat to the environment if accidentally released on land or into water.

#### 13. DISPOSAL CONSIDERATIONS

FASTMAX 60 as-manufactured is not considered a hazardous waste. However, before destruction of the refractory lining, customers are advised to evaluate any changes to the product that may occur by the introduction of substances or operating conditions outside the control of the vendor.



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#### 14. TRANSPORT INFORMATION

FASTMAX 60 is not a DOT Hazardous Material and contains no DOT Hazardous components.

#### 15. REGULATORY INFORMATION

Section 2 lists OSHA exposure limits for chemicals considered by OSHA to be air contaminants.

#### 16. OTHER INFORMATION

Although reasonable care has been taken in the preparation of the information contained herein, Allied Mineral Products, Inc. extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

**WARNING: This product may contain respirable crystalline silica; a chemical known to the State of California to cause cancer.**

Health Hazard . . . . . : 2-Moderate  
Flammability Hazard . . . . : 0-Minimal  
Reactivity Hazard . . . . . : 0-Minimal  
Personal Protection . . . . . : E-Glasses, gloves, dust mask